Results

Crash Reductions (Using 6.92 Year Before and After Periods)

Total Crashes:	90.9% Reduction	(From 11 crashes to 1 crash)
Target Crashes*:	100.0% Reduction	(From 9 crashes to 0 crashes)
Target Injury Crashes:	100.0% Reduction	(From 5 crashes to 0 crashes)
Target PDO Crashes:	100.0% Reduction	(From 4 crashes to 0 crashes)
AADT:	13.2% Increase	(From 3800 vehicles to 4300 vehicles)

* Target Crashes include all Left Turn-Same Roadway Crashes and Left Turn-Different Roadway Crashes

The Treatment Location appears to have had a substantial decrease in both Total and Target Crashes from the before to the after period. The safety treatments appear to have dramatically reduced the pattern of Left Turn crash types by increasing the sight distance for motorists using the intersection.

Location Photos Taken on March 9, 2006

Traveling North on Ebert St at approximate location of intersection prior to relocation.

Looking Right From Fraternity Church Rd.
The old intersection location was approximately 50 Feet in this direction.

For the complete project evaluation report and reports on other projects, please go to:
http://www.ncdot.org/doh/preconstruct/traffic/Safety/ses/projects/completed.html

North Carolina Department of Transportation
Traffic Engineering and Safety Systems Branch
Traffic Safety Systems Management Section
Safety Evaluation Group

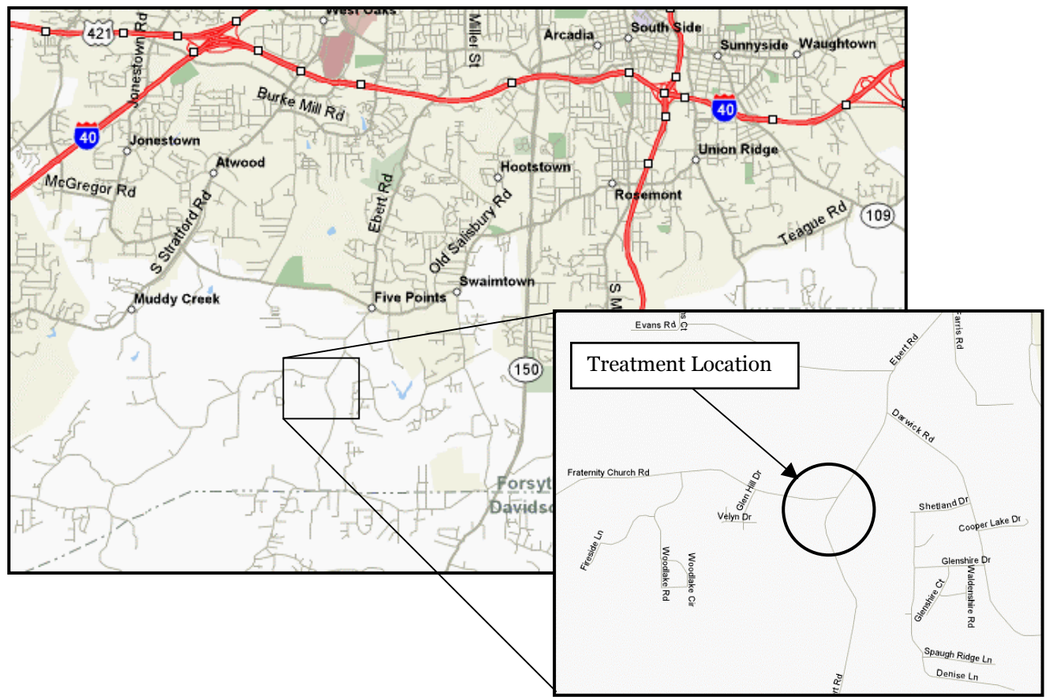
Evaluation of Spot Safety Project # 09-98-209

The Intersection Realignment of
SR 2990 (Fraternity Church Road) and SR 2902 (Ebert Street)
In Forsyth County

The subject intersection is located southwest of the Winston-Salem municipal limits. The intersection relocation involved realigning SR 2290 (Fraternity Church Road) approximately 50 feet north to intersection with SR 2902 (Ebert Street). Traffic Engineering staff originally recognized this location as needing safety improvements because it has experienced seven crashes in the time period between January 1, 1995 through February 28, 1998.

Prior to the relocation, the intersection was located adjacent to the peak of a hillcrest on Ebert Street. The hillcrest severely restricted sight distance when making a left turn from Ebert Street onto Fraternity Church Road. The safety treatments were intended to alleviate the pattern of Left Turn crash types that had developed.

The project was completed on November 18, 1998 at an estimated cost of $75,000.

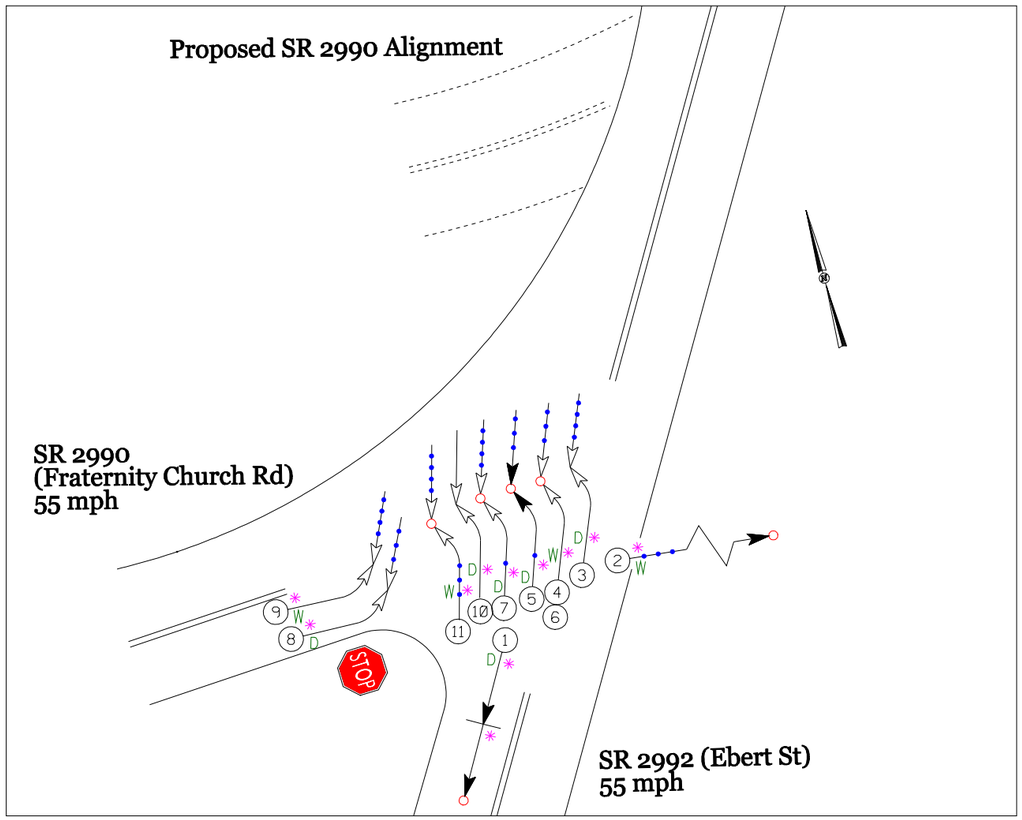


Before Period Collision Diagram

November 1, 1991 through September 30, 1998

(6.92 Years of Crash Data)

1995 ADT = 3800



- 11 Total Crashes
- 7 Left Turn-Same Roadway Crashes
- 2 Left Turn-Different Roadway Crashes
- 1 Rear End Crash
- 1 Run Off Road Crash

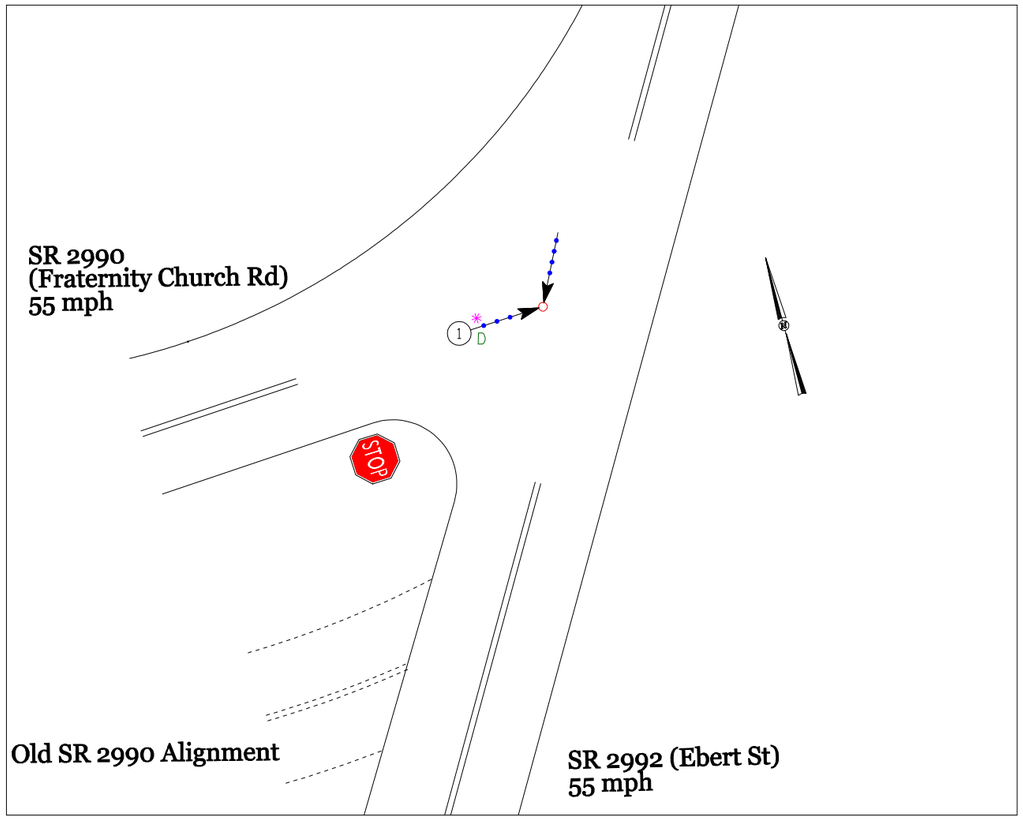
- 9 Target Crashes*
- 5 Target Injury Crashes
- 4 Target PDO Crashes

After Period Collision Diagram

January 1, 1999 through November 30, 2005

(6.92 Years of Crash Data)

2002 ADT = 4300



- 1 Total Crash
- 1 Angle Crash

- 0 Target Crashes*

* Target Crashes are deemed correctable by the treatment.
For this evaluation, Target Crashes include:
Left Turn-Different Roadway Crashes and Left Turn-Same Roadway Crashes